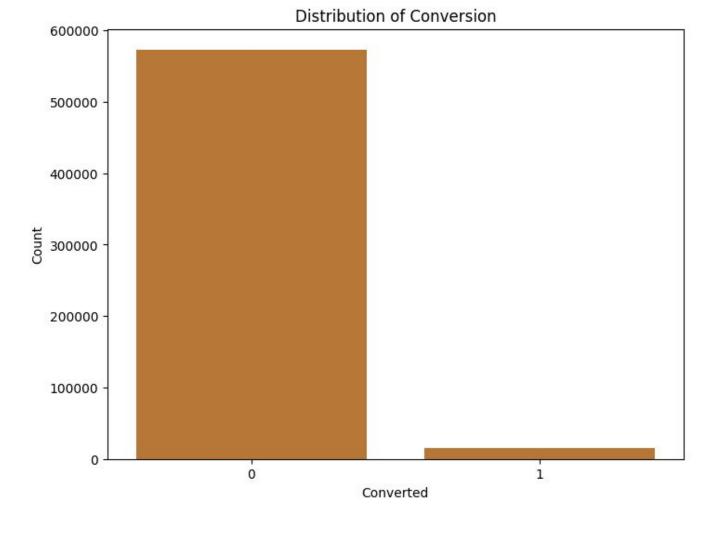
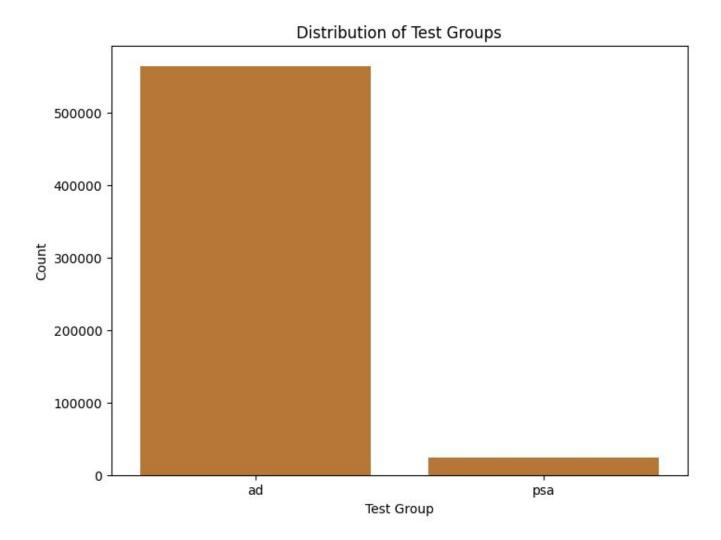
Data Duel: Navigating Choices with A/B Testing

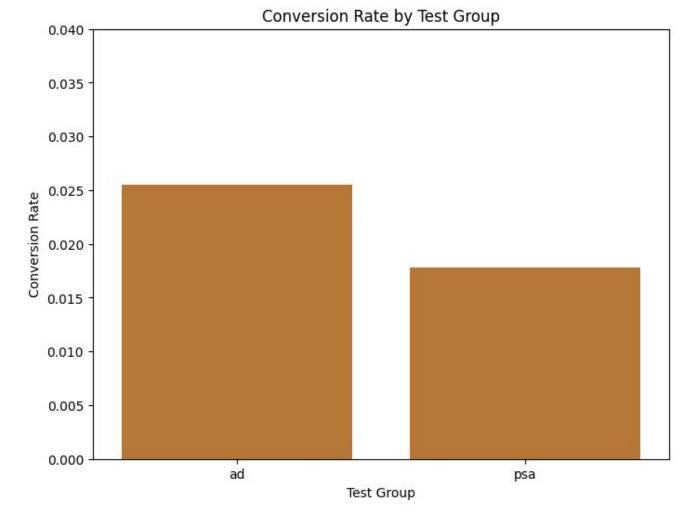
Vahe, Lusine, Ofelya, Armine

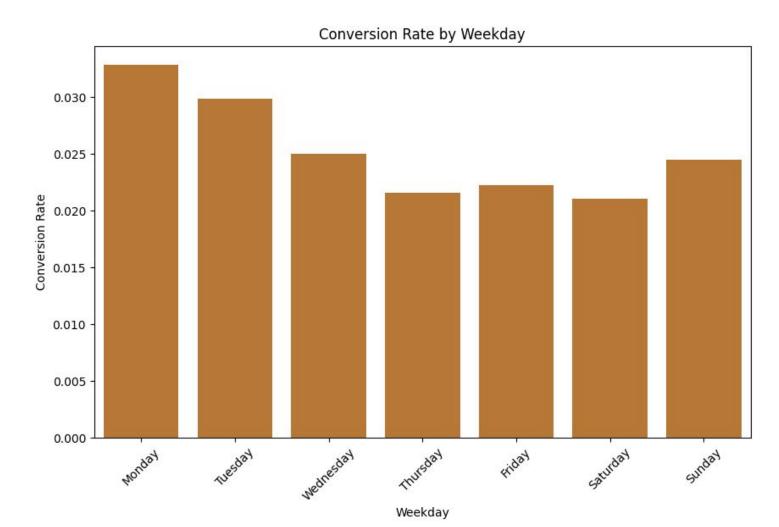
Data Description

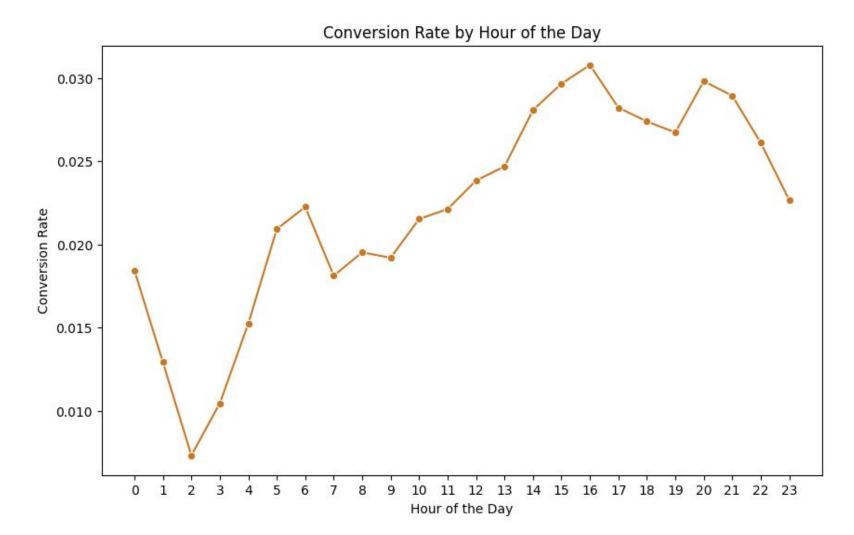
# =	⇔ user id =	≜ test group =	✓ converted =	# total ads =	A most ads =	# most ads =
0	1069124	ad	False	130	Monday	20
1	1119715	ad	False	93	Tuesday	22
2	1144181	ad	False	21	Tuesday	18
3	1435133	ad	False	355	Tuesday	10
4	1015700	ad	False	276	Friday	14
5	1137664	ad	False	734	Saturday	10
6	1116205	ad	False	264	Wednesday	13
7	1496843	ad	False	17	Sunday	18
8	1448851	ad	False	21	Tuesday	19
9	1446284	ad	False	142	Monday	14
10	1257223	ad	False	209	Wednesday	11
11	1637531	ad	False	47	Wednesday	13
12	1081965	ad	False	61	Tuesday	20
13	1037215	ad	False	40	Friday	13
14	1535652	ad	False	20	Tuesday	19
15	1461774	ad	True	9	Wednesday	18



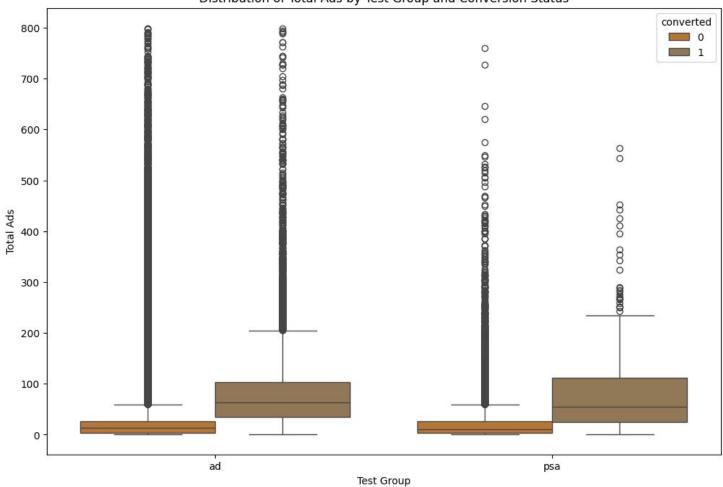




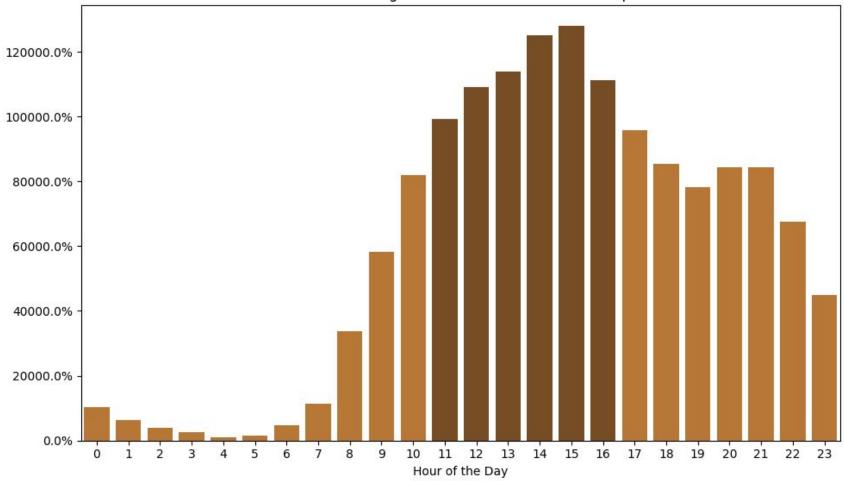


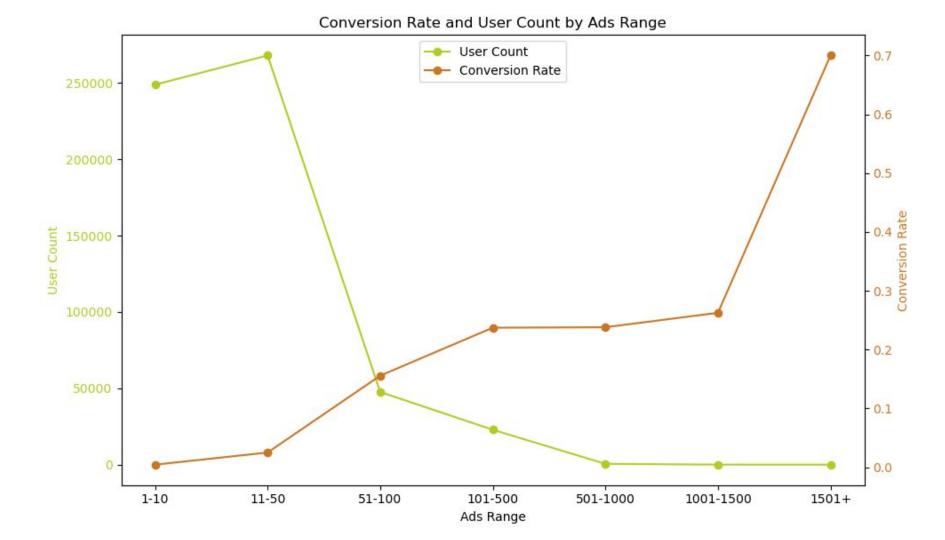






Peak Hours for Highest Conversion Rates for Group AD





Conclusion

Based on the A/B testing results, the experimental group achieved a significantly higher conversion rate of 2.55% compared to the control group's 1.79%, resulting in a relative increase of 43.01%. The statistical analysis yielded a Z-statistic of -7.36 with a p-value of 0.0000, indicating that the difference in conversion rates is statistically significant. Additionally, the peak hours for conversion were found to be between 11:00am and 4:00pm, suggesting that ads served during those hours tend to be more effective. During this period, frequency can further increase conversion rates. Continuous monitoring and analysis of campaign data will be critical for optimizing performance over time.

Thanks for your attention!